EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S6	216	(313/626).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:07
S7	1031	(313/46).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 13:19
S8	559	S7 and (heat cool heat adj sink)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 13:21
S9	985	(313/110).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 13:20
S10	249	S9 and (heat cool heat adj sink)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 14:57
S11	1924	(313/113).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 13:20
S12	673	S11 and (heat cool heat adj sink)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:00
S13	253	(313/624).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:16
S14	248	(313/625).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:18
S16	216	(313/626).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:22
S17	4374	(S7 S9 S11 S13 S14 S16)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:22

EAST Search History

S18	1	("6905214").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:24
S19	722	((353/52) or (353/85)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:25
S20	175	(S17 S19) and ((heat with sink) or fin) and (lamp light source discharge) and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:30
S21	1	("20040032739").PN. OR ("7001027").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/14 15:50
S22	10984	seiko adj epson.as.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/14 15:50
S23	18149	("353").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:50
S24	500	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:55
S25	1	10/803946	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 09:01
S26	5	S24 and (heat$radiation near fin)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 16:50
S27	10	S24 and (heat$radiation)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 16:31
S28	1	("20040032739").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/14 16:31
S29	169	S23 and ((heat with sink) or (heat and fin)) and (electrode or bulb)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 16:51
S30	2492	takezawa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:17

EAST Search History

S31	6	seiko$epson.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:18
S32	93324	seiko adj epson.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:18
S33	106	S30 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:21
S34	1	"2003082921"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:22
S35	1	("2003327238").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 10:22
S36	312	(353/52).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 11:14
S37	578	(313/43).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:07
S38	1131	(313/44).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:09
S39	694	(313/45).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:11
S40	398	(313/114).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/18 08:58
S41	602	(313/117).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:22
S42	1924	(313/113).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:39

EAST Search History

S43	132	heat$conductive and transparent with member	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:46
S44	44313	temperature adj (detector or sensor) and (bulb or light-emitting or lamp or arc or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:47
S45	44313	(temperature adj (detector or sensor)) and (bulb or light-emitting or lamp or arc or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:48
S46	238	S45 and ("353".clas. or "313".clas.)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:48
S47	0	("2005/0146257").URPN.	USPAT	OR	ON	2006/04/17 17:49
S48	1	("20040032739").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:35
S49	8	("4977346" | "5093601" | "5117154" | "5399931" | "5689154" | "5721465" | "6281620" | "6281629").PN. OR ("6897613"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:37
S50	8	("4977346" | "5093601" | "5117154" | "5399931" | "5689154" | "5721465" | "6281620" | "6281629").PN. OR ("6897613"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:37
S51	11	("3731133" | "3808496" | "4599540" | "4633128" | "4935853" | "5299279" | "5367444" | "5399931" | "5721465" | "5945776").PN. OR ("6400067").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:38
S52	9	("4633128" | "5399931" | "5721465" | "5789863" | "5903088").PN. OR ("6181053").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:39
S53	6	("3684908" | "5204578" | "5420769" | "5957570" | "6281629" | "6575599").PN. OR ("6784601"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:40
S55	5070	"313".clas. and (heat$3 with wire)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 11:07

EAST Search History

S56	26	("313".clas. or "353.clas") and (heating with device) and (temperature with (detector or detect))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 11:04
S57	65	S55 and (temperature with (detect$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 11:07
S58	18162	("353").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/18 11:48

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10803946 on April 18, 2006

4 340/630 (4 OR, 0 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/540 .Specific condition
340/603 ..Fluent material
340/627 ...Particle suspension in fluid
340/628 ....Smoke
340/630 .....Photoelectric

3 250/574 (0 OR, 3 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/573 ..Fluent material in optical path
250/574 ...Scattered or reflected light

3 257/98 (0 OR, 3 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/79 INCOHERENT LIGHT EMITTER STRUCTURE
257/98 .With reflector, opaque mask, or optical element (e.g., lens, optical fiber, index of refraction matching layer, luminescent material layer, filter) integral with device or device enclosure or package

3 257/E33.043 (0 OR, 3 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E33.001 LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH DEVICES, OR OF PARTS THEREOF
257/E33.002 .Device characterized by semiconductor body (EPO)
257/E33.043 ..Physical imperfections (e.g., particular concentration or distribution of impurity) (EPO)

3 340/628 (0 OR, 3 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/540 .Specific condition
340/603 ..Fluent material
340/627 ...Particle suspension in fluid
340/628 ....Smoke

3 347/262 (1 OR, 2 XR)
Class 347 : INCREMENTAL PRINTING OF SYMBOLIC INFORMATION

347/224 LIGHT OR BEAM MARKING APPARATUS OR PROCESSES
347/225 .Scan of light
347/262 ..With record receiver or handling means therefor

3 372/36 (3 OR, 0 XR)
Class 372 : COHERENT LIGHT GENERATORS
372/34 PARTICULAR TEMPERATURE CONTROL
372/36 .Heat sink

2 257/102 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES

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          257/79        INCOHERENT LIGHT EMITTER STRUCTURE
          257/102       .With particular dopant material (e.g., zinc as
                           dopant in GaAs)

  2  257/103       (2 OR, 0 XR)
          Class   257 :  ACTIVE SOLID-STATE DEVICES
          257/79        INCOHERENT LIGHT EMITTER STRUCTURE
          257/103       .With particular semiconductor material

  2  257/81        (1 OR, 1 XR)
          Class   257 :  ACTIVE SOLID-STATE DEVICES
          257/79        INCOHERENT LIGHT EMITTER STRUCTURE
          257/80        .In combination with or also constituting light
                           responsive device
          257/81        ..With specific housing or contact structure

  2  257/E31.108   (0 OR, 2 XR)
          Class   257 :  ACTIVE SOLID-STATE DEVICES
          257/E31.046   .....Including microcrystalline Group IV
                              compound (e.g.,  c-SiGe,  c-SiC) (EPO)
          257/E31.095   .Structurally associated with electric light
                           source (e.g., electroluminescent light source) (EPO)
          257/E31.103   ..Radiation-sensitive semiconductor device
                           controlled by light source (EPO)
          257/E31.108   ...Semiconductor light source and
                           radiation-sensitive semiconductor device both having
                           potential or surface barrier (EPO)

  2  257/E33.025   (0 OR, 2 XR)
          Class   257 :  ACTIVE SOLID-STATE DEVICES
          257/E33.001   LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A
                           POTENTIAL OR A SURFACE BARRIER, PROCESSES OR
APPARATUS
                           PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH
DEVICES,
                           OR OF PARTS THEREOF
          257/E33.002   .Device characterized by semiconductor body
                          (EPO)
          257/E33.013   ..Material of active region (EPO)
          257/E33.023   ...Comprising only Group III-V compound (EPO)

          257/E33.024   ....Binary compound (e.g., GaAs) (EPO)
          257/E33.025   .....Including nitride (e.g., GaN) (EPO)

  2  257/E33.028   (0 OR, 2 XR)
          Class   257 :  ACTIVE SOLID-STATE DEVICES
          257/E33.001   LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A
                           POTENTIAL OR A SURFACE BARRIER, PROCESSES OR
APPARATUS
                           PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH
DEVICES,
                           OR OF PARTS THEREOF
          257/E33.002   .Device characterized by semiconductor body
                          (EPO)
          257/E33.013   ..Material of active region (EPO)
          257/E33.023   ...Comprising only Group III-V compound (EPO)

          257/E33.026   ....Ternary or quaternary compound (e.g.,
                           AlGaAs) (EPO)
          257/E33.028   .....Including nitride (e.g., AlGaN) (EPO)

  2  315/291       (2 OR, 0 XR)
          Class   315 :  ELECTRIC LAMP AND DISCHARGE DEVICES:  SYSTEMS
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315/291 CURRENT AND/OR VOLTAGE REGULATION

2 315/292 (0 OR, 2 XR)
Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

315/291 CURRENT AND/OR VOLTAGE REGULATION
315/292 .Keyboard operated or pattern controlled regulator

2 315/312 (0 OR, 2 XR)
Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

315/312 PLURAL LOAD DEVICE SYSTEMS

2 315/362 (0 OR, 2 XR)
Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

315/362 ELECTRIC SWITCH IN THE SUPPLY CIRCUIT

2 355/27 (1 OR, 1 XR)
Class 355 : PHOTOCOPYING
355/18 PROJECTION PRINTING AND COPYING CAMERAS
355/27 .With developing

2 362/260 (1 OR, 1 XR)
Class 362 : ILLUMINATION
362/257 LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/260 .Fluorescent type

2 362/268 (0 OR, 2 XR)
Class 362 : ILLUMINATION
362/257 LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/268 .Plural serial lens elements or components

2 362/294 (0 OR, 2 XR)
Class 362 : ILLUMINATION
362/257 LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/294 .With ventilating, cooling or heat insulating means

2 372/109 (0 OR, 2 XR)
Class 372 : COHERENT LIGHT GENERATORS
372/109 MISCELLANEOUS

2 372/34 (0 OR, 2 XR)
Class 372 : COHERENT LIGHT GENERATORS
372/34 PARTICULAR TEMPERATURE CONTROL

2 428/402.2 (0 OR, 2 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/357 COATED OR STRUCTUALLY DEFINED FLAKE, PARTICLE, CELL, STRAND, STRAND PORTION, ROD, FILAMENT, MACROSCOPIC FIBER OR MASS THEREOF
428/402 .Particulate matter (e.g., sphere, flake, etc.)

428/402.2 ..Microcapsule with fluid core (includes liposome)

2 428/417 (0 OR, 2 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
428/413 .Of epoxy ether
428/417 ..Next to glass or quartz

2 428/425.9 (2 OR, 0 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
428/423.1 .Of polyamidoester (polyurethane, polyisocyanate, polycarbamate, etc.)
428/425.9 ..Particulate metal or metal compound-containing

2 428/432 (0 OR, 2 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
428/426 .Of quartz or glass
428/432 ..Next to metal or compound thereof

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10803946 on April 18, 2006

Original Classifications

4	340/630
3	372/36
2	257/103
2	315/291
2	428/425.9

Cross-Reference Classifications

3	250/574
3	257/98
3	257/E33.043
3	340/628
2	257/102
2	257/E31.108
2	257/E33.025
2	257/E33.028
2	315/292
2	315/312
2	315/362
2	347/262
2	362/268
2	362/294
2	372/109
2	372/34
2	428/402.2
2	428/417
2	428/432

Combined Classifications

4	340/630
3	250/574
3	257/98
3	257/E33.043
3	340/628
3	347/262
3	372/36
2	257/102
2	257/103
2	257/81
2	257/E31.108
2	257/E33.025
2	257/E33.028
2	315/291
2	315/292
2	315/312
2	315/362
2	355/27
2	362/260
2	362/268
2	362/294
2	372/109
2	372/34
2	428/402.2
2	428/417
2	428/425.9
2	428/432